Integrated Solution for MOTOTRBO™

SmartPTT

✔ Networks of any size and topology
✔ System infrastructure monitoring and control
✔ Bridging for different radio networks

SmartPTT for Ski Areas

Worker Safety

If a ski area employee has an emergency, the SmartPTT dispatcher can quickly locate the employee via the built-in GPS of the Motorola MOTOTRBO radio. Geo-fences can be created for hazardous or off-limits areas, so that if an employee enters this area they can be notified to leave immediately or use additional precautions.

To prevent major avalanches, ski areas trigger smaller avalanches using explosive devices. Prior to the initiating the explosions, the SmartPTT dispatcher can trigger blast notifications over the radio channel to warn employees to clear the area.

Efficient Operations

The voice dispatching capabilities of SmartPTT enable dispatchers to communicate to an individual radio, a group of radios, or all radios. Voice recordings provide instant recall of conversations in case a dispatcher is not clear on what was said, and they provide a means for investigating incidents after the fact.

The GPS capabilities of SmartPTT and MOTOTRBO can be used to track the snowcats grooming the trails. Using the telemetry capabilities of the MOTOTRBO radio, the radio can report when the snowcat's blade is up or down and the location of the snowcat can be requested by SmartPTT when that blade state changes. Track animations can be played back by the dispatcher to verify the snowcats groomed all of the trails.

Interoperability

Oftentimes, during an avalanche or a medical emergency, interoperability with Public Safety agencies or neighboring Ski Resorts is necessary. SmartPTT can patch MOTOTRBO talkgroups to other radio systems like P25, analog, etc. using donor radios connected to the SmartPTT radioserver.

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System description

- Motorola MOTOTRBO Connect Plus Trunking System
- SmartPTT PLUS
- 2 sites
- 265 subscribers, 3 dispatch positions

Solutions

Voice Recording

GPS Tracking

Rules & Alerts

Challenges

- ☐ The necessity of full radio coverage without any dead spots despite the mountain landscape
- ☐ Avalanche hazard requires the ability to communicate with an adjacent ski area (Snowbird), Town Marshal's department, Sheriff, local Heli skiing company, Mountain West Helicopters (VHF), and Unified Police (SL County Sherriff) in an emergency.
- ☐ Increase employee safety and decrease emergency response times.

Benefits

SmartPTT's cross-patching feature enables the dispatcher to interoperate with neighboring ski areas and public safety agencies during emergencies.

GPS location can show the dispatcher the location of an employee in the case of an emergency. If a skier needs assistance, knowing where employees are, can help reduce response times.

Ability to interface with Motorola MOTOTRBO Man Down feature, supported by SmartPTT, to increase safety and peace of mind that all team members are safe and accounted for.

Centralized dispatching enables seamless communications across teams and the entire facility. When blasting will occur, an all call from the dispatcher can be broadcast to all users to alert them to an impending blast and location.

Enhanced connectivity with staff improves workforce management (especially during such big events like competitions, closing season day, holidays' celebrations, demo days, etc.) and responsiveness to guest requests, increasing visitors' satisfaction and loyalty.

Tried and tested in critical situation

SmartPTT was put to the test in February of 2017. The best use of the system was when Alta had a backcountry avalanche reported in White Pine Canyon (adjacent to Snowbird). Alta Ski Area was able to communicate on hand sets directly with the lead agency of backcountry rescues UPD (SL County Sherriff), Snowbird Ski Patrol, Alta Ski Patrol and Alta Central. This direct communication among all parties was of great importance.

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